

Melvin Price Locks and Dam UMR Mile 201
Auxiliary Miter Gate Failure
Weekly Status Report
17 February 2005

General Description: On 3 Oct 2004 the downstream miter gates on the auxiliary lock at Melvin Price Locks & Dam traveled past the mitered position, causing severe damage to the gates.

Tows Waiting: Traffic is being passed through the main chamber and no abnormal backlogs are occurring.

Communication Plan: The district has set up a web page for this incident that can be accessed through (www.mvs.usace.army.mil).

Risk Assessment & Mitigation Plan: A minor repair by lock staff to the Missouri filling valve in the main chamber will not effect lock operation.

Helper Boat on Site: A government-furnished helper boat is on station. All approaching commercial tows are required to use the assistance of this boat at the direction of the Lockmaster to minimize the potential for damage to the main chamber.

Actions Performed This Week at the Service Base by the Combined Team Crews:

- * Began installation of two 50-ft long environmental enclosures to partially cover each gate leaf.
- * Continue repairs to bottom seals on IL gate leaf.
- * Completed prep for welding of the diagonal plate areas for all lower corners of both gate leafs.
- * Continue layout and fabrication of the new bottom diagonal pin support boxes.
- * 75% of environmental enclosure rail completed; remainder to be added after last installation.
- * 70% of safety handrails installed.
- * Continue machining and fabrication of 2 new strut arms for the lower gates.
- * Ordered material for 2 new strut arms for the upper gates.

Actions Scheduled Next Week at the Service Base:

- * Continue installation of environmental enclosure
- * Coordinate with and provide required on-site support for heat straightening contractor
- * Continue final fabrication for the removable seals on the both leafs.
- * Continue installing safety handrails around the repair barge.
- * Begin removal of quoin miter blocks and old epoxy backing on both gates.

Upcoming Significant Project Events:

- * Heat Straightening contractor making submittals; onsite work at Base to begin 22 Feb 05.
- * Environmental Enclosure second stage to be delivered by end of February.



Environmental enclosure parts offloaded onto repair barge at District Service Base - 17 Feb 2005
By Corps of Engineers' Derrickboat SEWELL off truck on railroad trestle to Fleet



Machinist Randy Niebrzydowski turns down strut arm flange for redesigned assembly - 17 Feb 2005
at District Service Base Machine Shop